

**Bridge Inspection Report**

Newmarket 127/097

**Date of Inspection:** 07/14/2011  
**Date Report Sent:** Not Sent Yet  
☐ Picture taken during inspection  
Owner: NHDOT

NH108  
Over  
LAMPREY RIVER  
**Newmarket Veterans Bridge**

**Recommended Postings:**

Weight: No Posting Required

☒ Weight Sign OK

Width: Not Required

☒ Width Sign OK

Primary Height Sign Recommendation: *None*  
Optional Centerline Height Sign Rec: *None*

**Clearances:** Over:  
(Feet) Under: 0.00  
Route:

☒ Height Signs OK**Condition:** Not on the Redlist

Deck: 5 Fair  
Superstructure: 6 Satisfactory  
Substructure: 6 Satisfactory  
Culvert: N N/A (NBI)

**Structure Type and Materials:**

Number of Spans Main Unit: 1  
Number of Approach Spans: 0

**Main Span Material and Design Type**

Steel Multiple Beam

**Sufficiency Rating:** 74.3%**NBI Status:** Functionally Obsolete

Bridge Rail: Meets Standards  
Rail Transition: Meets Standards  
Bridge Approach Rail: Substandard  
Approach Rail Ends: Substandard

NH Bridge Type: I Beams w/ Concrete Deck  
Deck Type: Concrete, Cast in Place  
Wearing Surface: Bituminous  
Membrane: None  
Deck Protection: None  
Pavement thickness: 3.0 in  
Curb Reveal: Not Applicable  
Plan Location: 3-3-4-1

**Bridge Dimensions:**

Length Maximum Span: 61.0 ft  
Left Curb/Sidewalk Width: 0.3 ft  
Width Curb to Curb: 28.0 ft  
Approach Roadway Width (W/ Shoulders): 30.0 ft

Total Bridge Length: 66.0 ft  
Right Curb/Sidewalk Width: 5.5 ft  
Total Bridge Width: 35.0 ft  
Median: No median  
Bridge Skew: 22.00 °

**Bridge Service:**

Type of Service on Bridge: Highway and Pedestrian  
Type of Service under: Waterway  
Lanes on bridge: 2  
Lanes Under: NA

Year Built: 1955  
Year Rebuilt: Not Rebuilt  
Detour Length: 4.0 mi

AADT: 12000      Percent Trucks: 4 %      Year of AADT: 2007  
Future AADT: 17760      Year of Future AADT: 2032

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Federal or State Definition Bridge: Fed. Definition Bridge  
 Roadway Functional Class: Rural Mjr. Collector  
 New Hampshire Highway System and Class: Primary-DOT Maintained  
 Eligibility for the National Register of Historic Places: Possibly eligible  
 Traffic Direction: Two-way traffic

**National Bridge Inventory (NBI) Appraisal Ratings:**

Deck Geometry: Intolerable, Replacement  
 Underclearances: Not Applicable (NBI)  
 Approach Alignment: Equal Minimum Criteria  
 Structural Evaluation: Equal Minimum Criteria  
 Channel/Channel Protection: Protected  
 Waterway Adequacy: Equal Desirable Criteria  
 Bridge Scour Critical Status: Stable for extreme flood  
 Riprap Condition: Good Condition  
 Debris Present: No Debris Present

DAM DOWNSTREAM OPEN 11/5/09.

Date of Underwater Inspection: Jul. 2011

**AASHTO CoRe Element Condition State Data:**

No.	Description	Env.	Material Notes and Condition Notes
13	Concrete Deck - Unprotected, with Asphalt Pavement	Moderate ASPHALT NEW.	
107	Painted Steel Beam or Girder (Open Web)	Moderate NEW PAINT. OLD SECTION LOSS. MINOR LEAKING.	
217	Other Material Abutment	Moderate VOIDS, CRACKED STONE, SETTLED. CONCRETE- CRACKS IN CONCRETE CAP.	
303	Modular Joint and Seal Assembly	Moderate Steel Sliding Plate. PAVED OVER NOT VISIBLE.	
311	Moveable Bearing (roller, sliding, etc.)	Moderate < none >	
313	Fixed Bearing	Moderate < none >	
330	Uncoated Metal Bridge Railing	Benign FLOW DAMAGE.	

## Bridge Inspection Report

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No.	Description	Env.	Material Notes and Condition Notes
359	Soffit of Conc Deck or Slab Condition Warning Flag	Moderate	LIGHT CRACKS AND LEAKING, DELAMINATION. REPAIRED DECK AT EXTERIORS.
361	Scour Condition Warning Flag	Moderate	Element record added 2010-07-13. VOIDS IN STONES. DAM DOWNSTREAM.

No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
13	Concrete Deck - Unprotected, with Asph	Moderate	2,400	(SF)	0 %	100 %	0 %	0 %	0 %
107	Painted Steel Beam or Girder (Open We	Moderate	397	(LF)	16 %	84 %	0 %	0 %	0 %
217	Other Material Abutment	Moderate	112	(LF)	0 %	95 %	5 %	0 %	
303	Modular Joint and Seal Assembly	Moderate	36	(LF)	90 %	10 %	0 %		
311	Moveable Bearing (roller, sliding, etc.)	Moderate	6	(EA)	16 %	84 %	0 %		
313	Fixed Bearing	Moderate	6	(EA)	0 %	100 %	0 %		
330	Uncoated Metal Bridge Railing	Benign	240	(LF)	99 %	0 %	0 %	1 %	
359	Soffit of Conc Deck or Slab Condition W	Moderate	1	(EA)	0 %	100 %	0 %	0 %	0 %
361	Scour Condition Warning Flag	Moderate	1	(EA)	100 %	0 %	0 %		

**Bridge Notes:**

NEW CURBS, WINGS, CONCRETE CAPS, SIDEWALKS AND RAIL, BY B.O.B.M. (2001)  
 "Newmarket Veterans Bridge" (Chapter 213, 2006 NH Laws (SB 239))

**Approach and Roadway Notes:** ASPHALT-NEW . ALUMINUM RAIL OK.

**Unusual or experimental features:** Not visible

**Inspection History:**

<b>Inspection Date:</b> 07/14/2011	<b>Inspector:</b> JEL	<b>Deck:</b> 5 Fair
<b>Notes:</b> ****underwater inspection**** JEL UNDERWATER INSPECTION COMMENTS- SUBSTRUCTURE- THE SUBMERGED PORTIONS OF SUBSTRUCTURE ARE INE SATISFACTORY CONDITION WITH NO SIGNIFICANT DEFECTS. ONE VOID WAS OBSERVED NEAR SOUTH END OF WEST ABUTMENT AT THE STREAM BOTTOM(MASONRY UNIT MAY HAVE BEEN DISPLACED SINCE LAST INSPECTION). AREA ON BACKSIDE OF VOID APPEARED SOLID. THE MASONRY UNITS ARE DRY SET. APPROXIMATELY 40% OF CHINK STONES ARE MISSING. A PORTION OF THE FOOTING ON THE EAST ABUTMENT IS VISIBLE (DRY SET STONE). RIVER BOTTOM IS BEDROCK WITH COBBLES.		<b>Super:</b> 6 Satisfactory <b>Substr:</b> 6 Satisfactory <b>Culvert:</b> N N/A (NBI)
<b>Inspection Date:</b> 07/13/2010	<b>Inspector:</b> KJT	<b>Deck:</b> 5 Fair
<b>Notes:</b> KJT inspection comments - DECK- ELEMENTS IN FAIR CONDITION. NEW CURBS AND SIDEWALK. SUPERSTRUCTURE- ELEMENTS IN SATISFACTORY CONDITION. SUBSTRUCTURE- ELEMENTS IN SATISFACTORY CONDITION. NEW CONCRETE CAPS AND WINGS. VOIDS CRACKED STONES SETTLED.		<b>Super:</b> 6 Satisfactory <b>Substr:</b> 6 Satisfactory <b>Culvert:</b> N N/A (NBI)

**Bridge Inspection Report**

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**Inspection History:**

<b>Inspection Date:</b> 11/05/2009	<b>Inspector:</b> DPC	<b>Deck:</b> 5 Fair <b>Super:</b> 6 Satisfactory <b>Substr:</b> 6 Satisfactory <b>Culvert:</b> N N/A (NBI)
<b>Notes:</b> DPC-inspection comments - DECK- ELEMENTS IN FAIR CONDITION. NEW CURBS AND SIDEWALK. SUPERSTRUCTURE- ELEMENTS IN SATISFACTORY CONDITION. SUBSTRUCTURE- ELEMENTS IN SATISFACTORY CONDITION. NEW CONCRETE CAPS AND WINGS. PICTURES: C407 #19: VOIDS IN NORTH WEST WING. #20: VOIDS IN NORTH ABUTMENT. #21: SOUTH WEST WING - VOIDS AND BULGING. #22: SOUTH ABUTMENT - VOIDS. #23: VOIDS IN SOUTH EAST WING. #24: VOIDS IN NORTH EAST WING.		
<b>Inspection Date:</b> 05/01/2008	<b>Inspector:</b> KJT	<b>Deck:</b> 5 Fair <b>Super:</b> 6 Satisfactory <b>Substr:</b> 6 Satisfactory <b>Culvert:</b> N N/A (NBI)
<b>Notes:</b> KJT-inspection comments - DECK- ELEMENTS IN FAIR CONDITION. NEW CURBS AND SIDEWALK. SUPERSTRUCTURE- ELEMENTS IN SATISFACTORY CONDITION. SUBSTRUCTURE- ELEMENTS IN SATISFACTORY CONDITION. NEW CONCRETE CAPS AND WINGS.		
<b>Inspection Date:</b> 05/23/2006	<b>Inspector:</b> RLM	<b>Deck:</b> 5 Fair <b>Super:</b> 6 Satisfactory <b>Substr:</b> 6 Satisfactory <b>Culvert:</b> N N/A (NBI)
<b>Notes:</b> RLM inspection comments - DECK- ELEMENTS IN FAIR CONDITION. NEW CURBS AND SIDEWALK. SUPERSTRUCTURE- ELEMENTS IN SATISFACTORY CONDITION. SUBSTRUCTURE- ELEMENTS IN SATISFACTORY CONDITION. NEW CONCRETE CAPS AND WINGS.		
<b>Inspection Date:</b> 07/02/2004	<b>Inspector:</b> RLM	<b>Deck:</b> 5 Fair <b>Super:</b> 6 Satisfactory <b>Substr:</b> 6 Satisfactory <b>Culvert:</b> N N/A (NBI)
<b>Notes:</b> Sufficiency Rating Calculation Accepted by DMB at 8/26/2005 14:26:47 RLM inspection comments - DECK- ELEMENTS IN FAIR CONDITION. NEW CURBS AND SIDEWALK. SUPERSTRUCTURE- ELEMENTS IN SATISFACTORY CONDITION. SUBSTRUCTURE- ELEMENTS IN SATISFACTORY CONDI		
<b>Inspection Date:</b> 04/15/2002	<b>Inspector:</b> DPC	<b>Deck:</b> 5 Fair <b>Super:</b> 6 Satisfactory <b>Substr:</b> 6 Satisfactory <b>Culvert:</b> N N/A (NBI)
<b>Notes:</b> Sufficiency Rating Calculation Accepted by DEP at 10/14/2002 15:52:13 DPC inspection comments - DECK- ELEMENTS IN FAIR CONDITION. NEW CURBS AND SIDEWALK. SUPERSTRUCTURE- ELEMENTS IN SATISFACTORY CONDITION. SUBSTRUCTURE- ELEMENTS IN SATISFACTORY CONDITION. NEW CONCRETE CAPS AND WINGS.  PIC: C135-17, 18, 19		
<b>Inspection Date:</b> 05/03/2000	<b>Inspector:</b> DPC	<b>Deck:</b> 5 Fair <b>Super:</b> 6 Satisfactory <b>Substr:</b> 5 Fair <b>Culvert:</b> N N/A (NBI)
<b>Notes:</b> Sufficiency Rating Calculation Accepted by DEP at 10-16-2000 14:35:25 DPC inspection comments - DECK - ELEMENTS IN FAIR CONDITION. CURB UPSTREAM IN SERIOUS CONDITION. SUPERSTRUCTURE - ELEMENTS IN SATISFACTORY CONDITION. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION. WINGS IN POOR CONDITION. APPROACH BRIDGESEAT IN POOR CONDITION AT UPSTREAM.		

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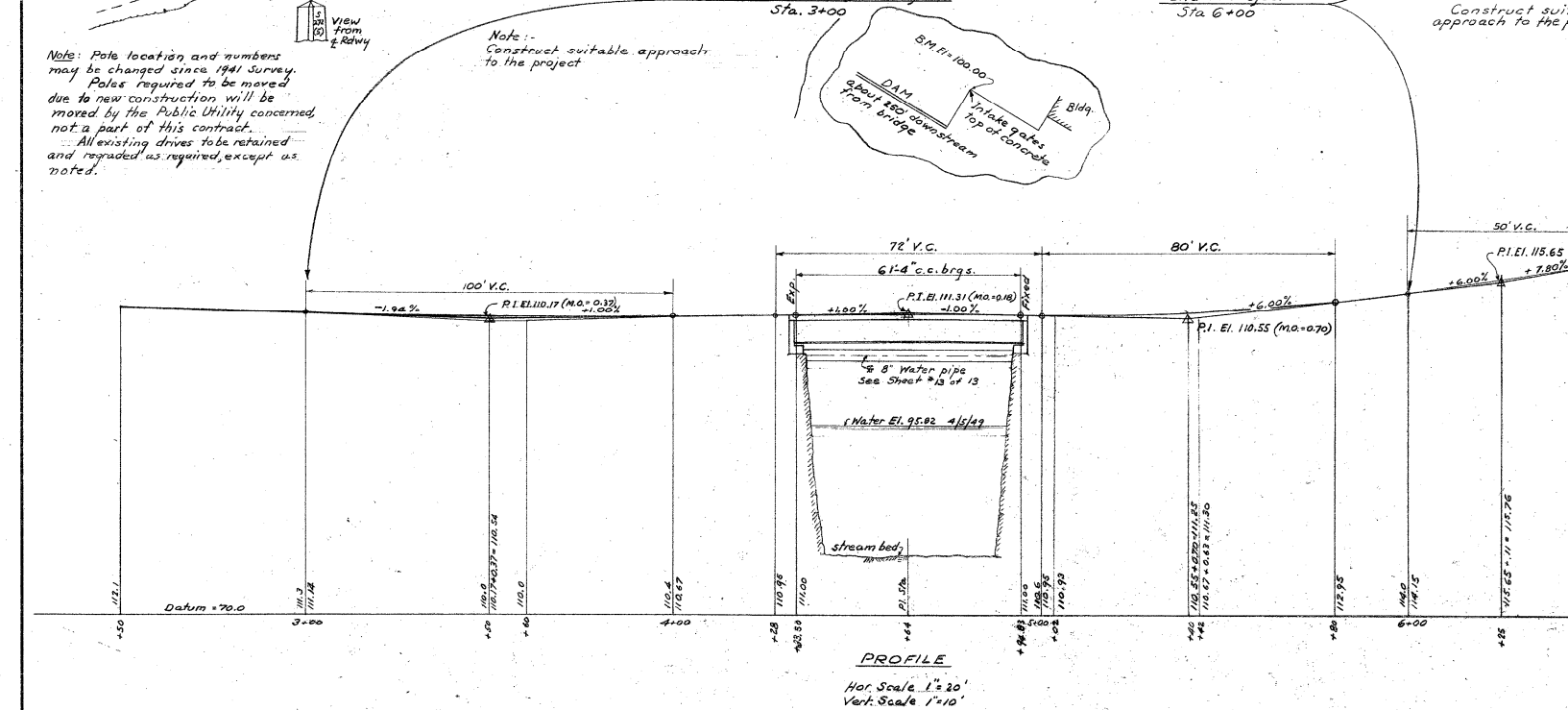
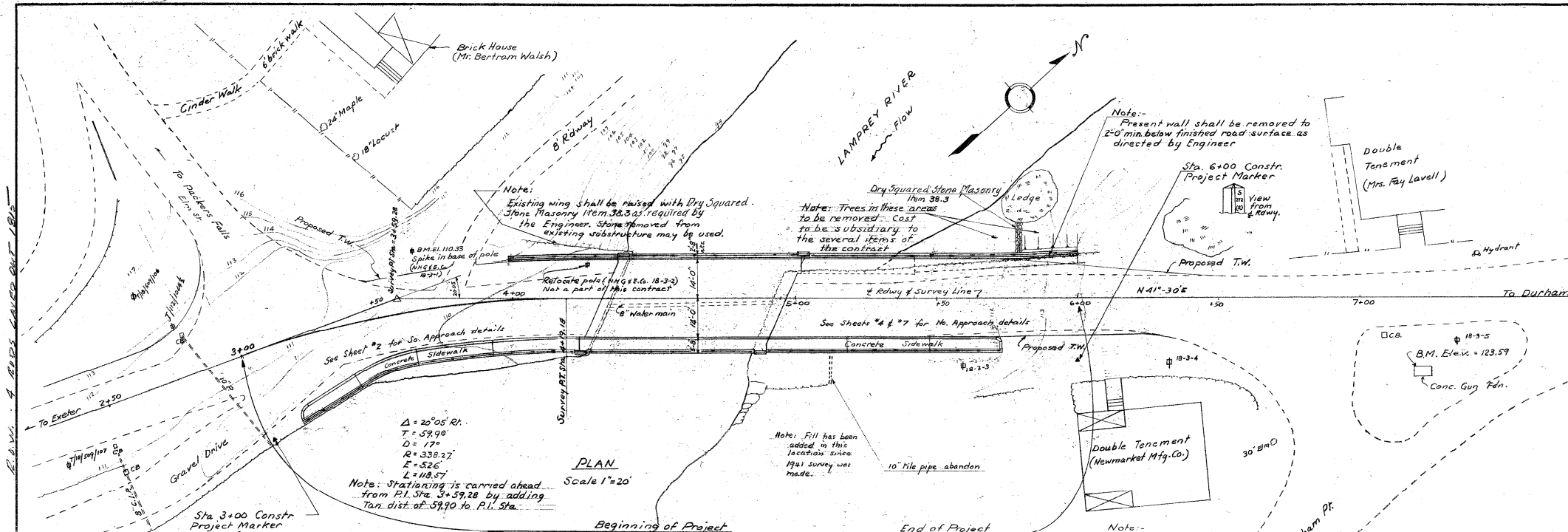
**Inspection History:**

<b>Inspection Date:</b> 09/03/1998	<b>Inspector:</b> FNM	<b>Deck:</b> 5 Fair <b>Super:</b> 7 Good <b>Substr:</b> 5 Fair <b>Culvert:</b> N N/A (NBI)
<b>Notes:</b> <i>Sufficiency Rating Calculation Accepted by DEP at 12-23-98 08:09:39</i>  <i>FNM inspection comments- Deck: cracked and heavily spalled at the west curb/deck edge, light leaking overall, few delaminations. Medium crack at deck/sidewalk joint at east. Curbs.- heavily spalled with rebar exposed and rusting. Sidewalk: light cracks heavy leaking at the east deck joint.</i> <i>Super: I-beams- minor section loss.</i> <i>Abuts: Stone/Concrete capped- cracked stone with voids, settled. Concrete -medium spalling at the SE. Bridgeseat heavily spalled at the NW approach beam. Medium spall at the SE. Wings: cracked, spalled, delaminated. Stone-voided, settled.</i>		
<b>Inspection Date:</b> 06/01/1996	<b>Inspector:</b> Not Available	<b>Deck:</b> 6 Satisfactory <b>Super:</b> 7 Good <b>Substr:</b> 5 Fair <b>Culvert:</b> N N/A (NBI)
<b>Notes:</b>		
<b>Inspection Date:</b> 06/01/1994	<b>Inspector:</b> Not Available	<b>Deck:</b> 6 Satisfactory <b>Super:</b> 7 Good <b>Substr:</b> 6 Satisfactory <b>Culvert:</b> N N/A (NBI)
<b>Notes:</b>		
<b>Inspection Date:</b> 07/01/1992	<b>Inspector:</b> Not Available	<b>Deck:</b> 6 Satisfactory <b>Super:</b> 8 Very Good <b>Substr:</b> 6 Satisfactory <b>Culvert:</b> N N/A (NBI)
<b>Notes:</b>		

**Copy Distribution:**

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> (2) Bureau of Municipal Hghways | <input type="checkbox"/> Border State               | <input type="checkbox"/> Dept. of Res. and Econ. Dev.    |
| <input type="checkbox"/> (3) Bureau of Municipal Hghways | <input type="checkbox"/> Bureau of Rail and Transit | <input type="checkbox"/> Dept. of Environmental Services |
| <input type="checkbox"/> Bureau of Turnpikes             | <input type="checkbox"/> Army Corps Of Engineers    | <input type="checkbox"/> USDA Forest Service             |
|  | <input type="checkbox"/> Railroad                   | <input type="checkbox"/> Bureau of Traffic               |

FED. ROAD DIV. NO.	STATE	F.A.P. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F 272(5)	1954	3	17



ESTIMATE OF ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
6.6	Unclassified Trench Excavation	T	75
24.2 A	Type I-1 Hot Asphalt Conc. W.C. (2")	Ton	23
5.3	Unclassified Excavation	Cu.Yd.	675
24.2 B	Type I-1 Hot Asphalt Conc. W.C. (1")	Ton	2.2
6.6	Unclassified Trench Excav. T	Cu.Yd.	65
31	Removing Superstructure	Unit	1
15	Fine Grading	Sq.Yd.	1000
16.1	Gravel	Cu.Yd.	815
32.1	Concrete Class A	Cu.Yd.	95
35	Reinforcing Steel	Lb.	15,403
36.1	Structural Steel	Lb.	74,205
20.1	Class A Asphalt Surface Treatment	Gal.	1200
24.2 B	Type I-1 Hot Asphalt Conc. W.C. (1")	Ton	3.5
32.1	Concrete Class A	Cu.Yd.	182
35	Reinforcing Steel	Lb.	6,162
40.1	12" Reinforced Concrete Pipe (Std.)	Lin.Ft.	20
44	Bridge Railing E	Lin.Ft.	316.2
48	Paint Waterproofing	Sq.Yd.	158
56.1	Straight Granite Curb A	Lin.Ft.	299
56.2	Curved Granite Curb A	Lin.Ft.	32.5
64.1	Catch Basins Type B	Each	1
64.4	Drop Inlets Type B	Each	1
73	Concrete Sidewalk	Sq.Yd.	84
79	Project Markers	Each	2
127	Maintenance of Traffic	Unit	400
127	Water	Unit	50
36.1	Structural Steel	Lb.	5240
38.3	Dry Squared Stone Masonry	Cu.Yd.	20

ESTIMATE OF BRIDGE QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
6.6	Unclassified Trench Excavation	T	75
24.2 A	Type I-1 Hot Asphalt Conc. W.C. (2")	Ton	23
24.2 B	Type I-1 Hot Asphalt Conc. W.C. (1")	Ton	2.2
31	Removing Superstructure	Unit	1
32.1	Concrete Class A	Cu.Yd.	95
35	Reinforcing Steel	Lb.	15,403
36.1	Structural Steel	Lb.	74,205
38.3	Dry Squared Stone Masonry	Cu.Yd.	5
44	Bridge Railing E	Lin.Ft.	118.7
45	Membrane Waterproofing	Sq.Yd.	202
48	Paint Waterproofing	Sq.Yd.	39
56.10	Straight Granite Curb (Bridge)	Lin.Ft.	132.4

Notes: Temporary 90' Bailey Br. to be erected over existing structure to give not less than 2'-0" clearance over prop. deck. Erection and removal not a part of this contract.

GENERAL NOTES

Design Loading H-20-S16-44

Specifications A.A.S.H.O. 1963 and N.H.H.D. 1948

Concrete shall be Class A air-entrained

For further information, see Sheets titled "Addenda to Specifications" attached to Proposal.

APPROVED - *[Signature]* DATE 5/1/54  
BRIDGE ENGINEER

STATE OF NEW HAMPSHIRE  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
BRIDGE DIVISION

TOWN: NEWMARKET BRIDGE NO. 127/097

FEDERAL PROJECT: F 272(5) STATE PROJECT: C-2763

ROUTE NO. N.H. 108 OVER LAMPREY RIVER

LOCATION: 0.6 MI. SOUTH NEWMARKET - DURHAM T.L.

SURVEY PLAN & PROFILE

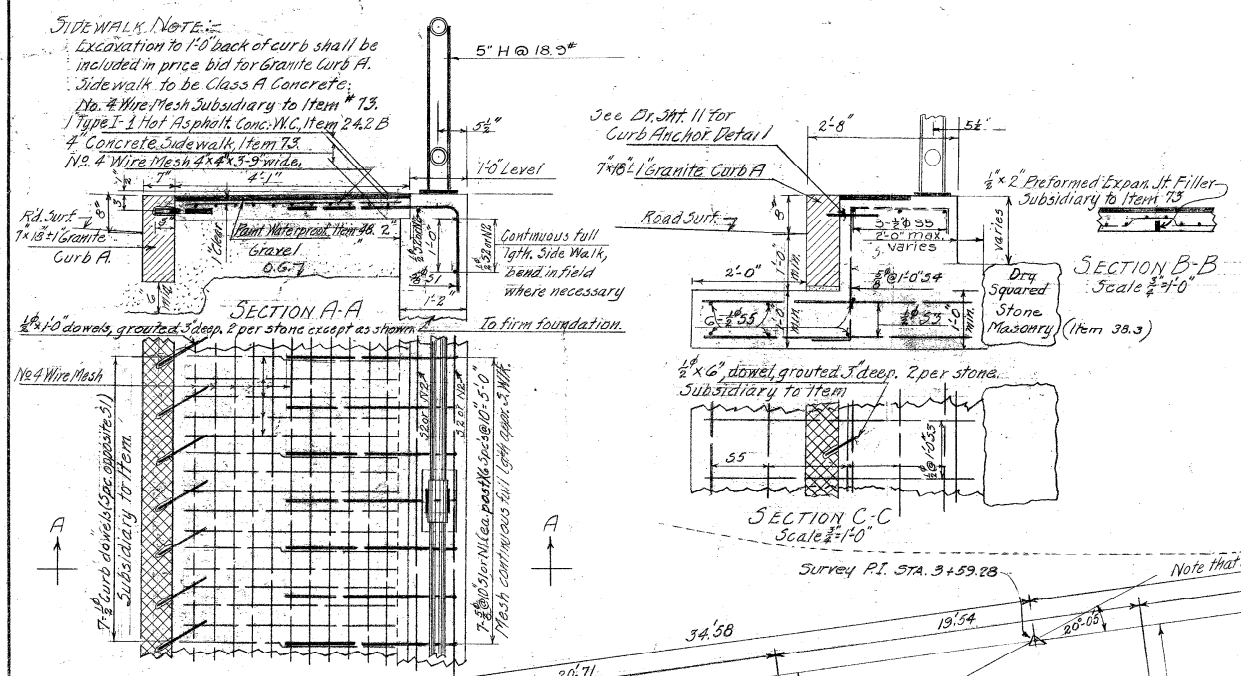
BY	DATE	BY	DATE	BRIDGE SHEET NO.
DESIGNED		CHECKED		1 OF 13
DRAWN	J.S.B.	11/53	11/53	
CHECKED		11/53	11/53	
QUANTITIES	J.S.B.	4/54	4/54	3-3-4-1

PROJ. NO. F 272(5) SHEET NO. 3 TOTAL SHEETS 17

The original field survey was made years in advance of the design. In the mean time many changes were made to road surface and nearby areas, necessitating so many field changes that it is not feasible to record them on these plans. As survey if future changes are made.

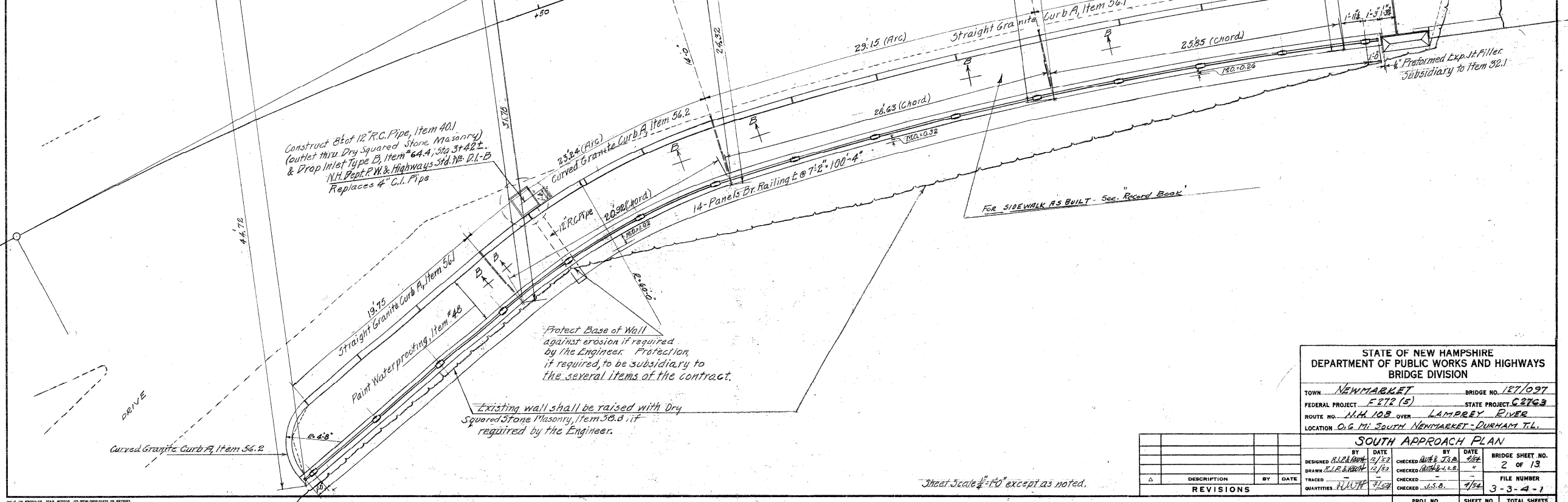
REVISIONS	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

**SIDEWALK NOTE:**  
Excavation to 1'0" back of curb shall be included in price bid for Granite Curb A.  
Side walk to be Class A Concrete.  
No. 4 Wire Mesh Subsidiary to Item 73.  
Type I-1 Hot Asphalt Conc. Y.C. Item 24.2 B  
4" Concrete Sidewalk, Item 73.  
No. 4 Wire Mesh 4'x4'x3-9 wide.



**TYPICAL SIDE WALK DETAIL**  
Plan at Post  
Scale 1/4"=1'-0"

Note: S bars = South Approach  
N bars = North Approach



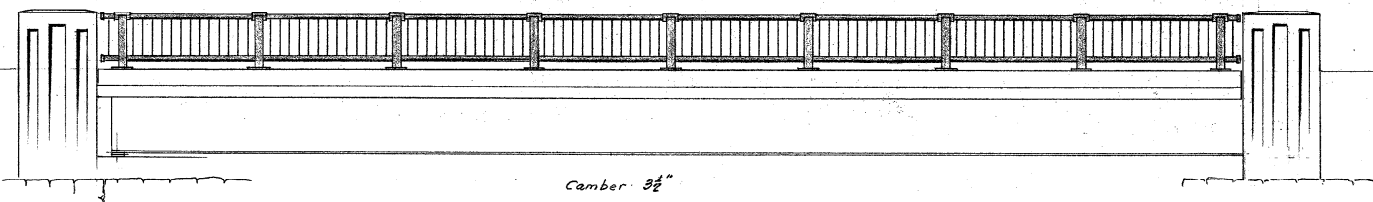
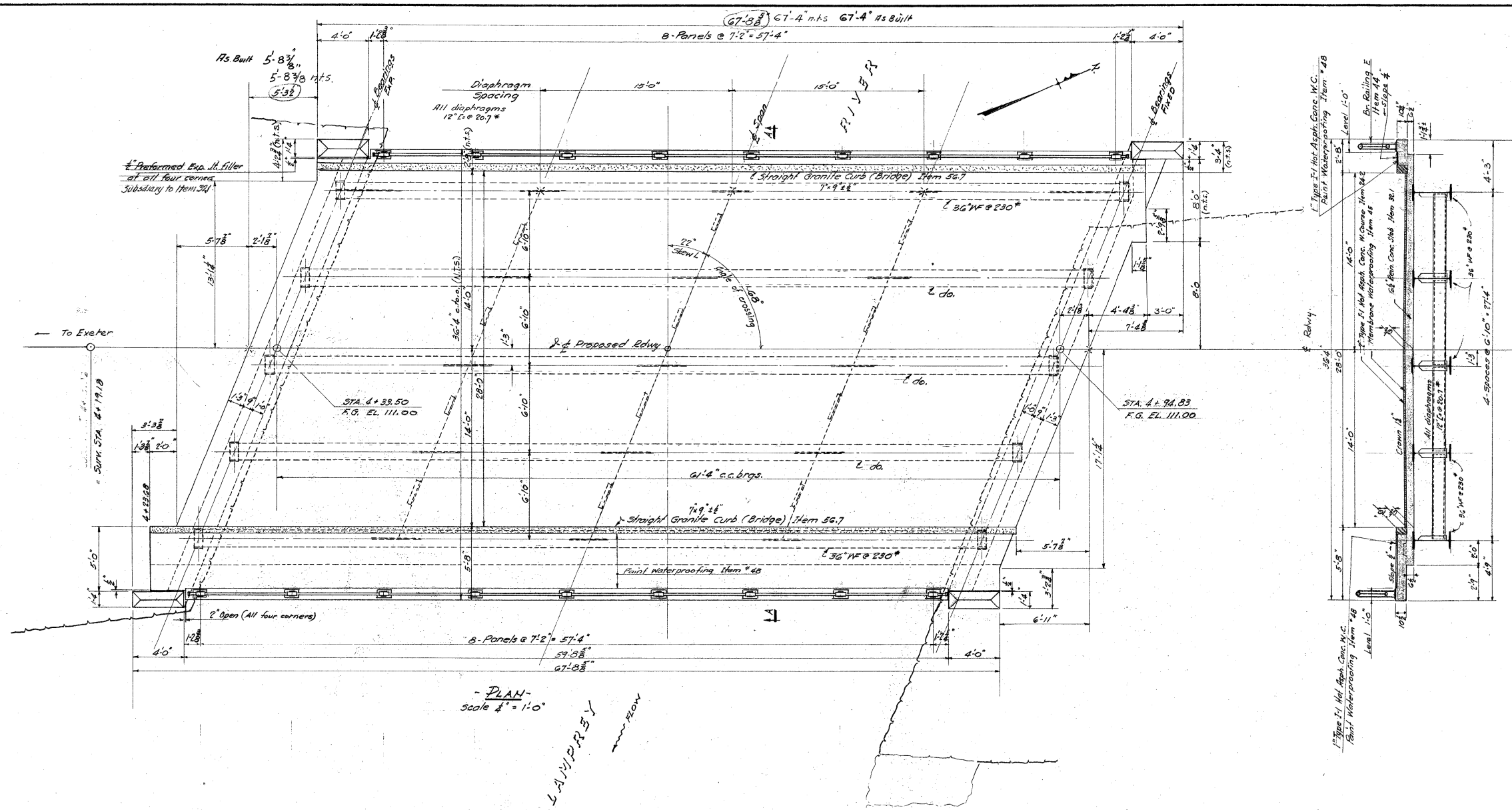
FED. ROAD DIV. NO.	STATE	F.A.T. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F272(5)	1954	4	17

STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BRIDGE DIVISION					
TOWN: <u>NEWMARKET</u>		BRIDGE NO. <u>187/097</u>			
FEDERAL PROJECT: <u>F272(5)</u>		STATE PROJECT: <u>C2763</u>			
ROUTE NO. <u>N.H. 108</u>		OVER: <u>LAMPREY RIVER</u>			
LOCATION: <u>0.6 MI. SOUTH NEWMARKET - DURHAM T.L.</u>					
SOUTH APPROACH PLAN					
DESIGNED: <u>B.L.H.</u>	DATE: <u>12/52</u>	CHECKED: <u>B.L.H.</u>	DATE: <u>1/53</u>	BRIDGE SHEET NO. <u>2</u>	OF <u>13</u>
DRAWN: <u>B.L.H.</u>	DATE: <u>12/52</u>	CHECKED: <u>B.L.H.</u>	DATE: <u>1/53</u>	FILE NUMBER	
QUANTITIES: <u>W.W.H.</u>	DATE: <u>1/54</u>	CHECKED: <u>J.S.B.</u>	DATE: <u>1/54</u>	3-3-4-1	
PROJ. NO. <u>F272(5)</u>		SHEET NO. <u>4</u>		TOTAL SHEETS <u>17</u>	

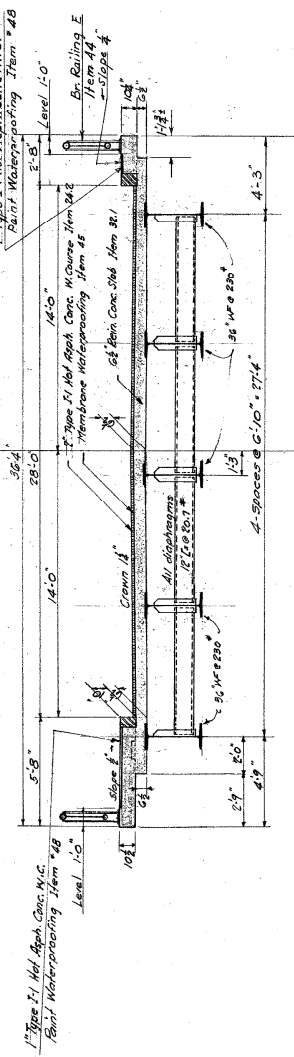
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5.55(1)

FED. ROAD DIV. NO.	STATE	F.R.P. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F-272(5)	1954	5	17



DOWNSTREAM ELEVATION



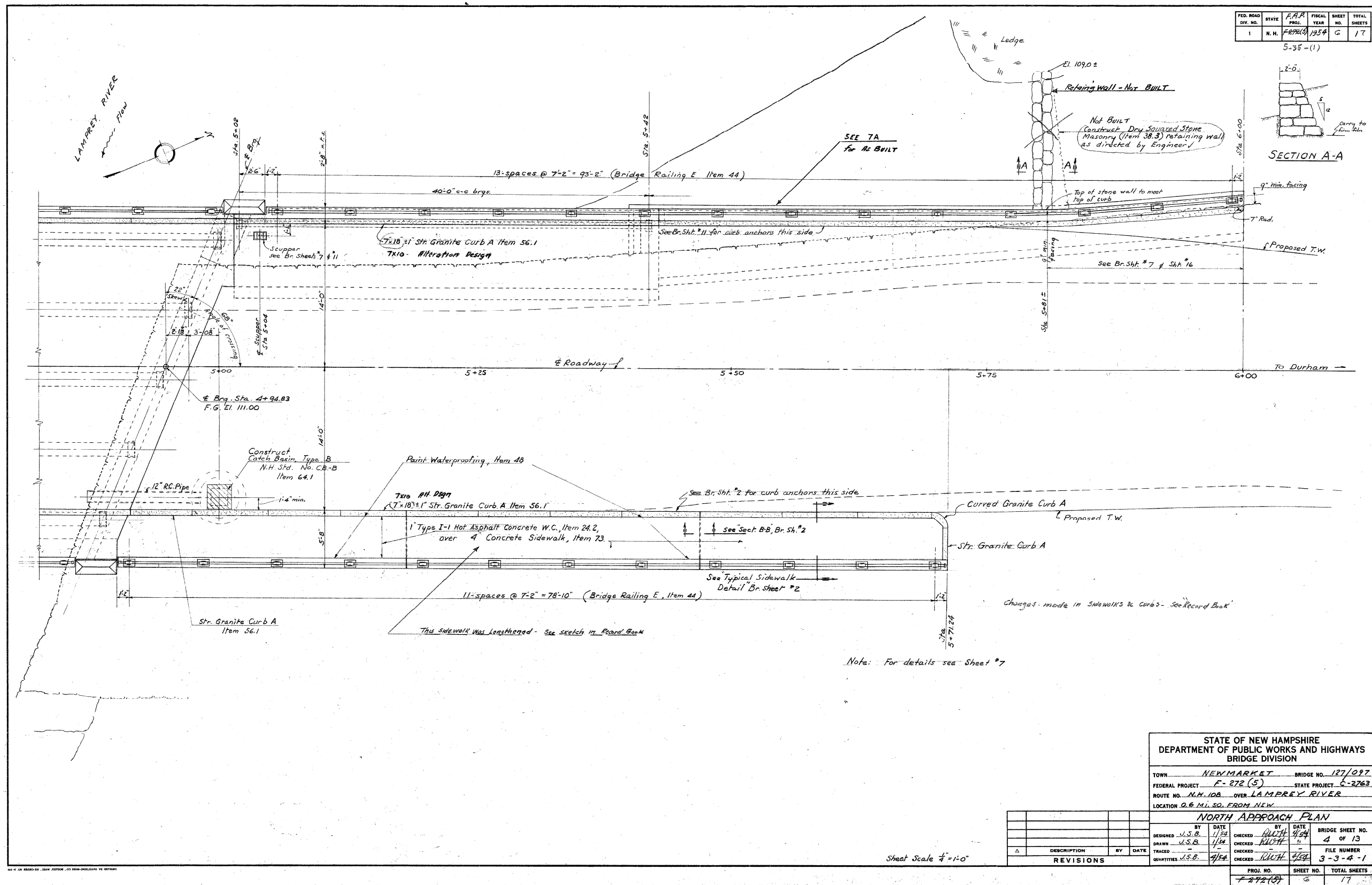
SECTION A-A

Modular Functions 82°  
 S/N. 37400659  
 C/S. 192710305  
 Ann. 40406029  
 Sec. 107859474

STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BRIDGE DIVISION					
TOWN <u>NEWMARKET</u>		BRIDGE NO. <u>127/027</u>			
FEDERAL PROJECT <u>F-272 (5)</u>		STATE PROJECT <u>C2763</u>			
ROUTE NO. <u>N.H. 108</u>		OVER <u>LAMPREY RIVER</u>			
LOCATION <u>0.9 MI. SOUTH NEWMARKET - DURHAM T.L.</u>					
DECK PLAN & ELEVATION					
DESIGNED <u>E.S.B.</u>	DATE <u>11/5/53</u>	CHECKED <u>W.S.B.</u>	DATE <u>12/5/53</u>	BRIDGE SHEET NO. <u>3 OF 13</u>	
DRAWN <u>E.S.B.</u>	DATE <u>11/5/53</u>	CHECKED <u>W.S.B.</u>	DATE <u>12/5/53</u>	FILE NUMBER <u>3-3-4-1</u>	
TRACED	DATE	CHECKED	DATE		
QUANTITIES <u>W.S.B.</u>	DATE <u>1/5/54</u>	CHECKED <u>W.S.B.</u>	DATE <u>2/5/54</u>		
PROJ. NO. <u>F-272(5)</u>		SHEET NO. <u>5</u>		TOTAL SHEETS <u>17</u>	

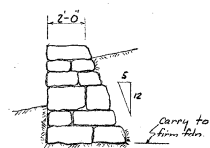
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FED. ROAD DIV. NO.	STATE	F.A.P. PROJ. YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F-272(5)	1954	6	17

5-35-(1)



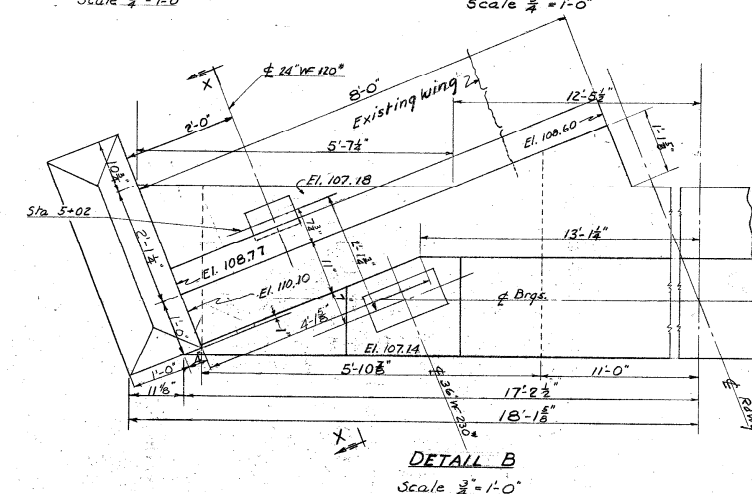
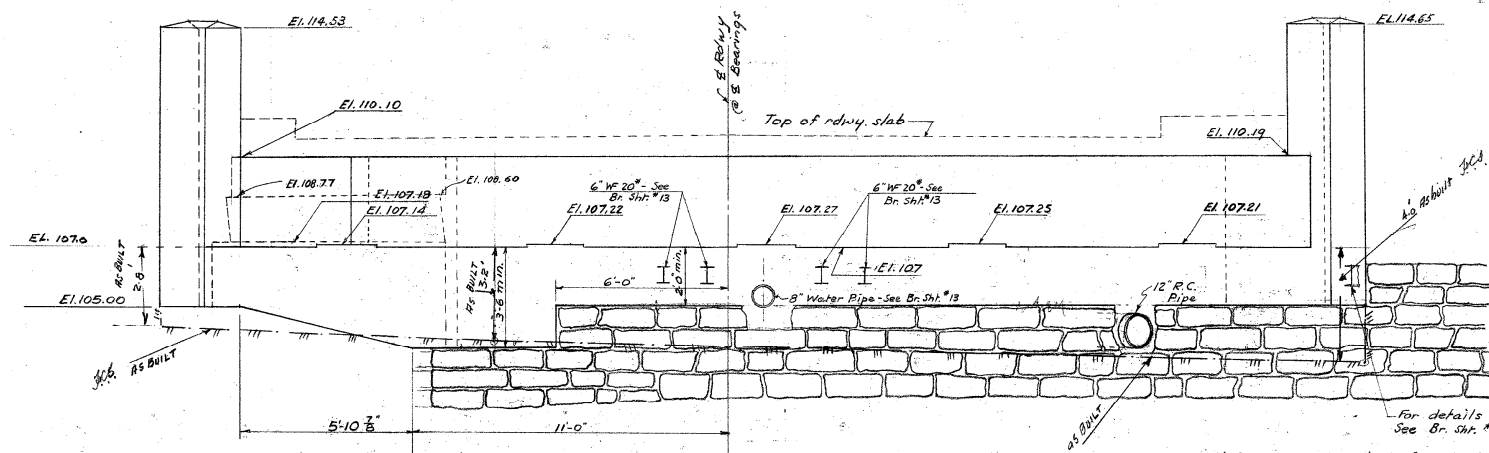
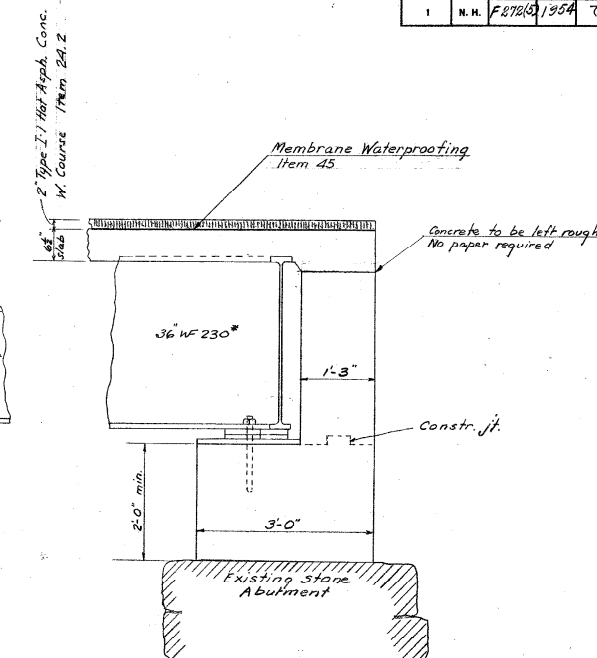
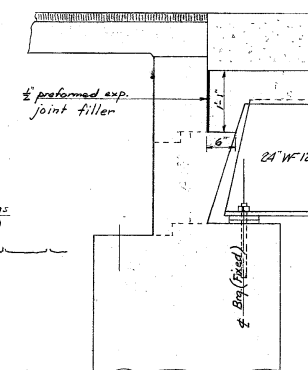
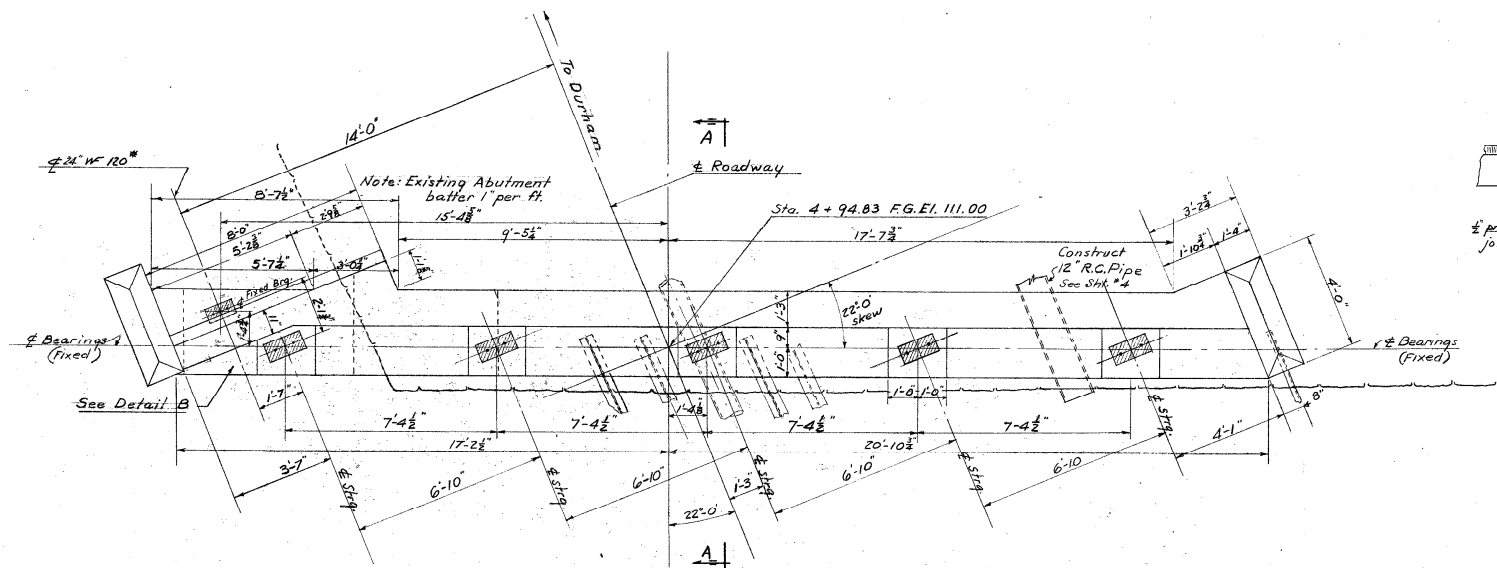
SECTION A-A

STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BRIDGE DIVISION					
TOWN		NEW MARKET		BRIDGE NO. 127/097	
FEDERAL PROJECT		F-272(5)		STATE PROJECT 5-2763	
ROUTE NO.		N.H. 108		OVER LAMPREY RIVER	
LOCATION		0.6 MI. SO. FROM NEW			
NORTH APPROACH PLAN					
DESIGNED	BY	DATE	CHECKED	BY	DATE
J.S.B.	J.S.B.	11/54	W.H.H.	W.H.H.	4/54
DRAWN	BY	DATE	CHECKED	BY	DATE
J.S.B.	J.S.B.	11/54	W.H.H.	W.H.H.	4/54
TRACED	BY	DATE	CHECKED	BY	DATE
J.S.B.	J.S.B.	4/54	W.H.H.	W.H.H.	4/54
QUANTITIES		J.S.B. 4/54			
PROJ. NO.		SHEET NO.		TOTAL SHEETS	
F-272(5)		6		17	

Sheet Scale 1/4" = 1'-0"

5-35(1)

FED. ROAD DIV. NO.	STATE	F.A.P. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F8789	1954	7	17



Note: Remove stone from existing abutment to allow construction of proposed bridge seat beam as indicated.

# STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BRIDGE DIVISION

TOWN NEWMARKET BRIDGE NO. 127/097  
FEDERAL PROJECT F-272(5) STATE PROJECT C-2763  
ROUTE NO. N.H. 100 OVER LAMPREY RIVER  
LOCATION 6 MI. SO. FROM NEWMARKET, DURHAM CO.

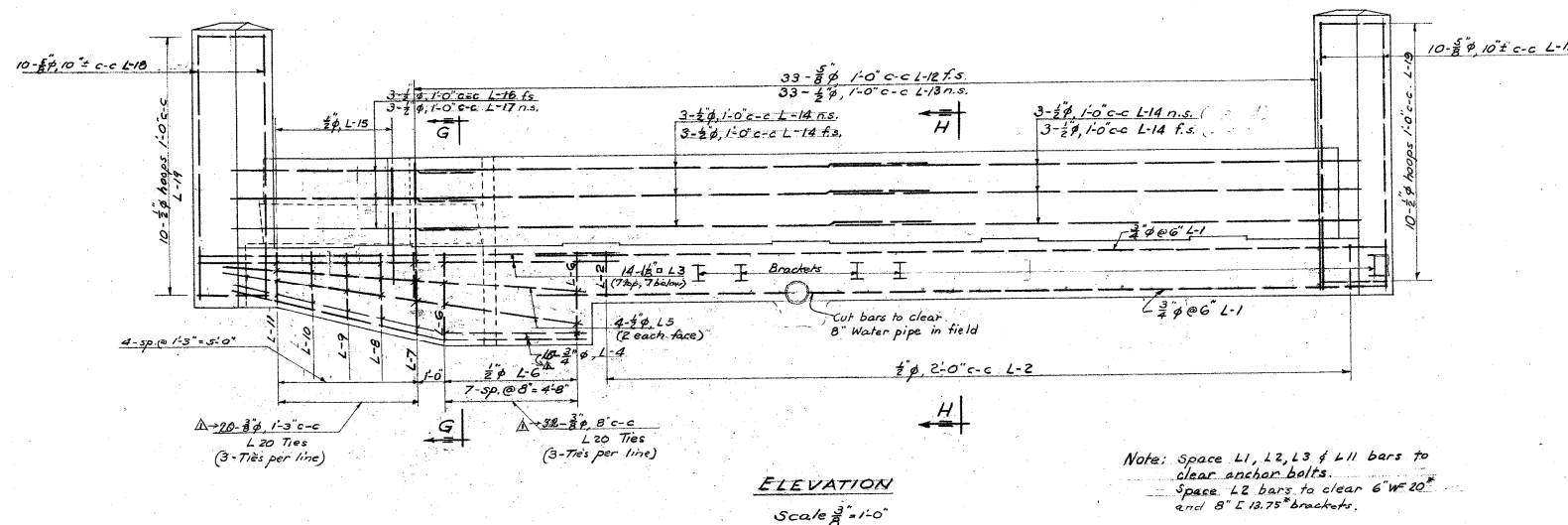
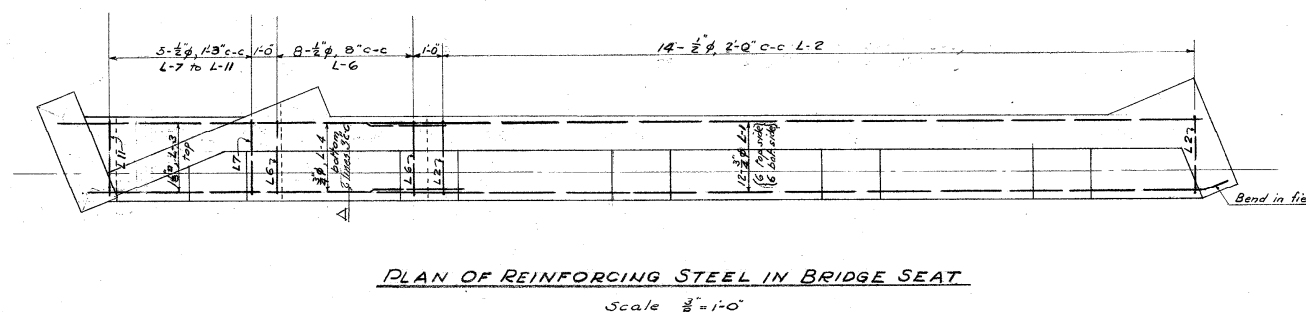
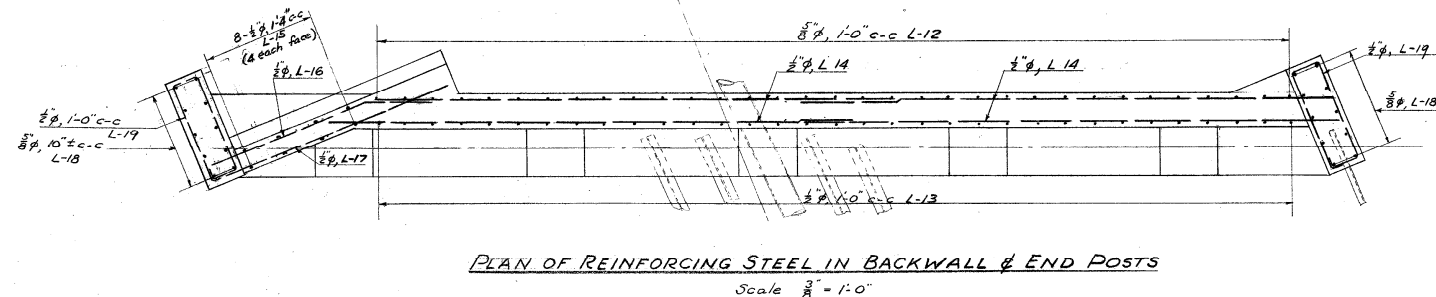
## NORTH ABUTMENT

DESIGNED	DATE	CHECKED	DATE	BRIDGE SHEET NO.
U.S.B.	12/53	U.S.B.	4/54	5 OF 13
DRAWN	DATE	CHECKED	DATE	FILE NUMBER
U.S.B.	12/53	U.S.B.	4/54	3-3-4-1
TRACED	DATE	CHECKED	DATE	
U.S.B.	12/53	U.S.B.	4/54	

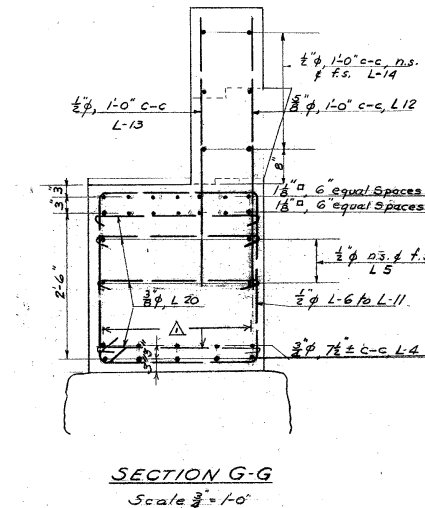
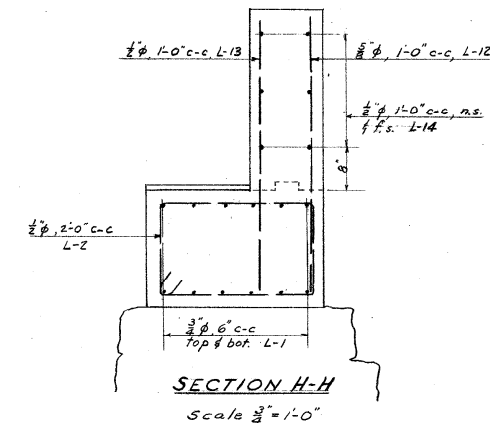
PROJ. NO.	SHEET NO.	TOTAL SHEETS
F-272(5)	7	17

535(1)

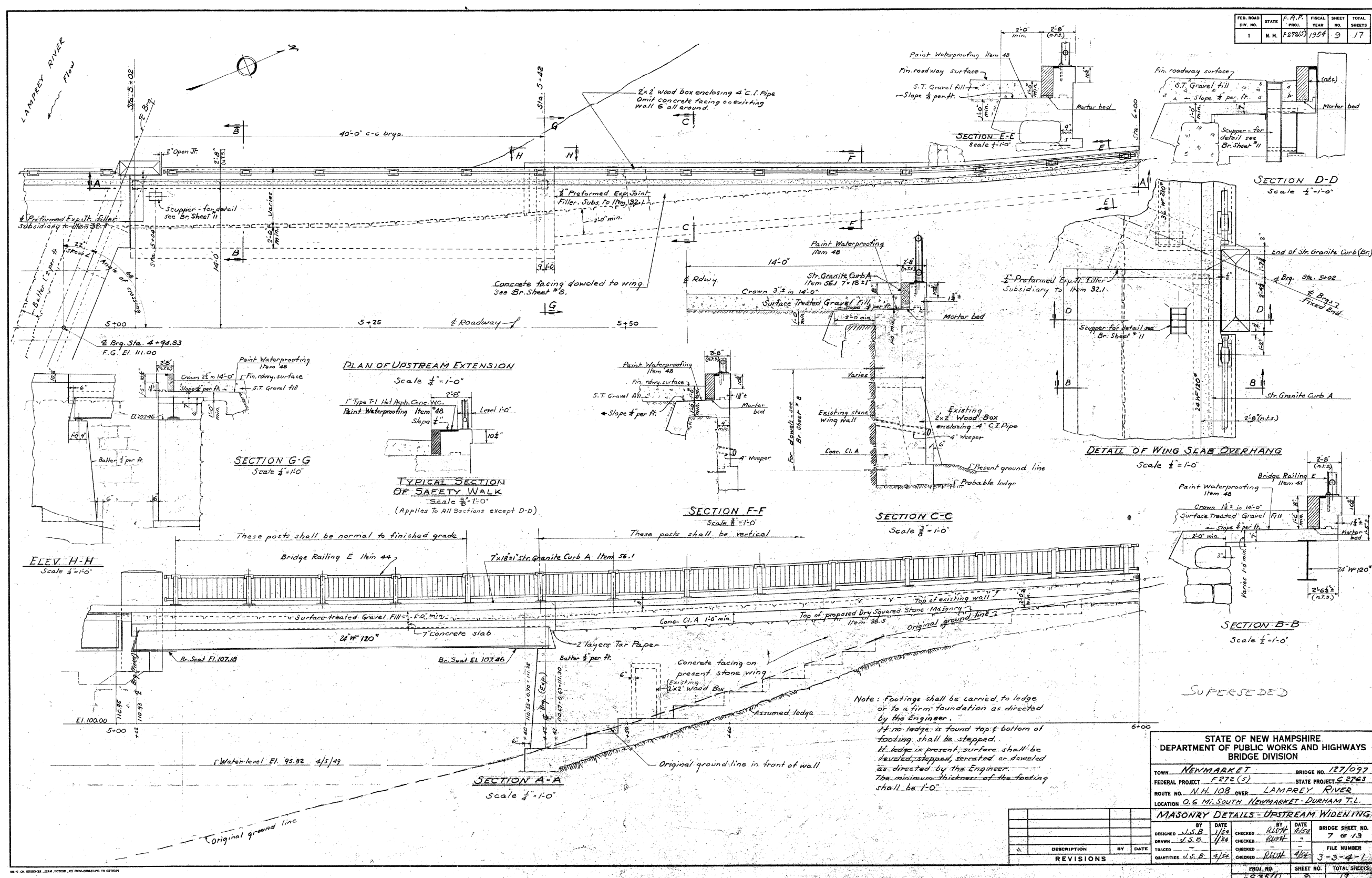
FED. ROAD DIV. NO.	STATE	F.A.P. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F272(5)	1954	8	17



Note: Space L1, L2, L3 & L11 bars to clear anchor bolts.  
Space L2 bars to clear 6" W 20" and 8" L 12.75" brackets.

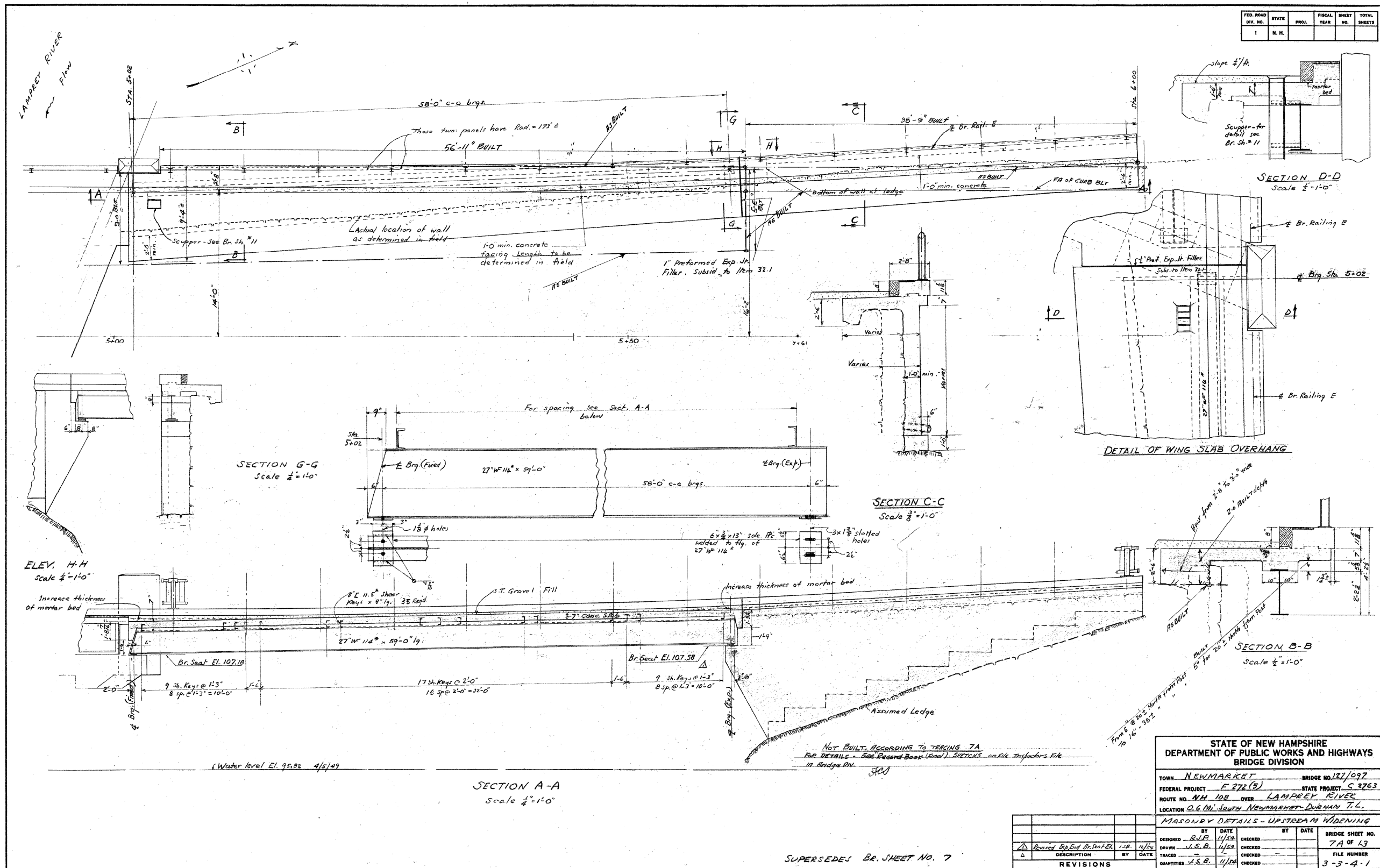


STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BRIDGE DIVISION				
TOWN	NEW MARKET		BRIDGE NO.	127/097
FEDERAL PROJECT	F-272 (5)		STATE PROJECT	C-276
ROUTE NO.	N.H. 108		OVER	LAMPREY RIVER
LOCATION	0.6 MI. SO. FROM NEW MARKET-DURHAM T.L.			
REINFORCING STEEL-NORTH ABUT.				
	BY	DATE	BY	DATE
DESIGNED	J.S.B.	12/53	W.L.W.	4/54
DRAWN	J.S.B.	12/53	W.L.W.	4/54
TRACED				
QUANTITIES	J.S.B.	3/54	W.L.W.	4/54
BRIDGE SHEET NO. 6 OF 13				
FILE NUMBER 3-3-4-1				
PROJ. NO. SHEET NO. TOTAL SHEETS				
F 272 (5) 8 17				



FED. ROAD DIV. NO.	STATE	F. A. P. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F272(5)	1954	9	17

STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BRIDGE DIVISION					
TOWN <u>NEWMARKET</u>			BRIDGE NO. <u>127/097</u>		
FEDERAL PROJECT: <u>F272(5)</u>			STATE PROJECT: <u>2763</u>		
ROUTE NO. <u>N.H. 108</u> OVER <u>LAMPREY RIVER</u>			LOCATION <u>0.6 MI. SOUTH NEWMARKET-DURHAM T.L.</u>		
<u>MASONRY DETAILS - UPSTREAM WIDENING</u>					
DESIGNED BY <u>U.S.B.</u>	DATE <u>1/54</u>	CHECKED BY <u>R.W.H.</u>	DATE <u>4/54</u>	BRIDGE SHEET NO.	
DRAWN <u>U.S.B.</u>	DATE <u>1/54</u>	CHECKED BY <u>R.W.H.</u>	DATE <u>4/54</u>	7 OF 13	
TRACED _____	CHECKED _____	CHECKED BY <u>R.W.H.</u>	DATE <u>4/54</u>	FILE NUMBER	
QUANTITIES <u>U.S.B.</u>	DATE <u>4/54</u>	CHECKED _____	DATE _____	3-3-4-1	
PROJ. NO. <u>1335(1)</u>				SHEET NO. <u>9</u>	TOTAL SHEETS: <u>17</u>

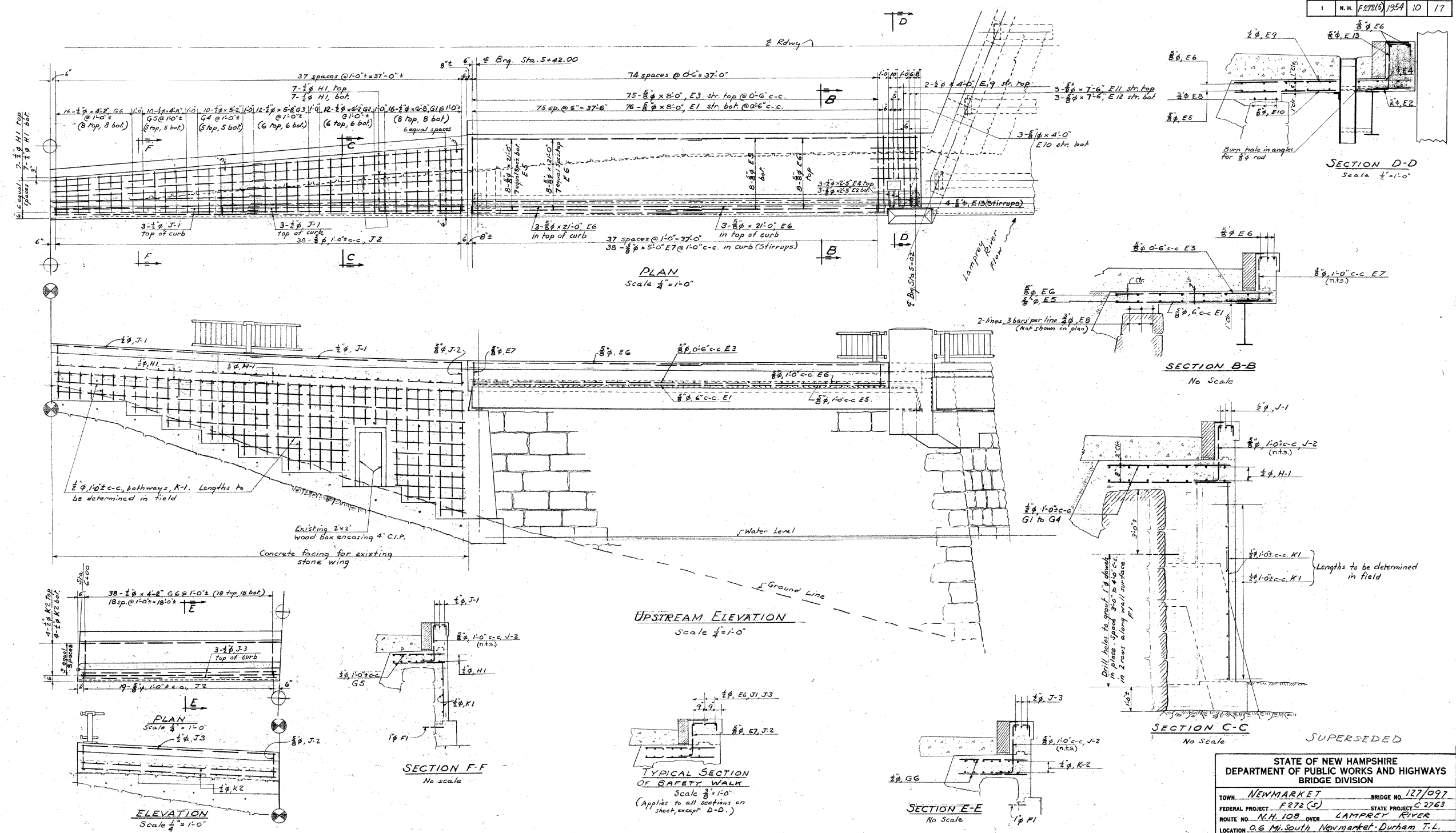


STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BRIDGE DIVISION			
TOWN	<u>NEW MARKET</u>	BRIDGE NO.	<u>127/097</u>
FEDERAL PROJECT	<u>F 272 (5)</u>	STATE PROJECT	<u>S 2763</u>
ROUTE NO.	<u>NH 108</u>	OVER	<u>LAMPREY RIVER</u>
LOCATION	<u>0.6 MI. SOUTH NEW MARKET-DURHAM T.L.</u>		
<u>MASSONRY DETAILS - UPSTREAM WIDENING</u>			
DESIGNED	BY <u>R.P.B.</u>	DATE <u>11/5/49</u>	BRIDGE SHEET NO.
DRAWN	BY <u>J.S.B.</u>	DATE <u>11/5/49</u>	<u>7A OF 13</u>
TRACED	BY	DATE	FILE NUMBER
QUANTITIES	BY <u>J.S.B.</u>	DATE <u>11/5/49</u>	<u>3-3-4-1</u>
PROJ. NO.	SHEET NO.		TOTAL SHEETS
<u>74A (9)</u>			<u>17</u>

SUPERSEDES BR. SHEET NO. 7

535(1)

FED. ROAD DIST. NO.	STATE	F.P.P. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F272(5)	1954	10	17



STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BRIDGE DIVISION			
TOWN	NEWMARKET	BRIDGE NO.	127/097
FEDERAL PROJECT	F272(5)	STATE PROJECT	C 2763
ROUTE NO.	N.H. 108 OVER	LAMPREY RIVER	
LOCATION	0.6 Mi. South Newmarket-Durham T.L.		
REINFORCING STEEL-UPSTREAM WIDENING			
DESIGNED	J.S.B. 2/24	CHECKED	R.W.H. 4/22
DRAWN	J.S.B. 2/24	CHECKED	R.W.H. 4/22
TRACED	J.S.B. 3/24	CHECKED	R.W.H. 4/22
QUANTITIES	J.S.B. 3/24	CHECKED	R.W.H. 4/22
PROJ. NO.	F272(5)	SHEET NO.	10
		TOTAL SHEETS	17

335(1)

**PLAN**  
Scale  $\frac{1}{4}'' = 1'-0''$

**SECTION A-A**  
Scale  $\frac{1}{4}'' = 1'-0''$

**SECTION B-B**  
Scale  $\frac{1}{2}'' = 1'-0''$

**SECTION C-C**  
Scale  $\frac{3}{8}'' = 1'-0''$

**SECTION D-D**  
Scale  $\frac{1}{2}'' = 1'-0''$

**REVISIONS**

NO.	DESCRIPTION	BY	DATE
1	DESIGNED	J.S.B.	11/58
2	DRAWN	J.S.B.	11/58
3	TRACED	J.S.B.	11/58
4	QUANTITIES	J.S.B.	11/58

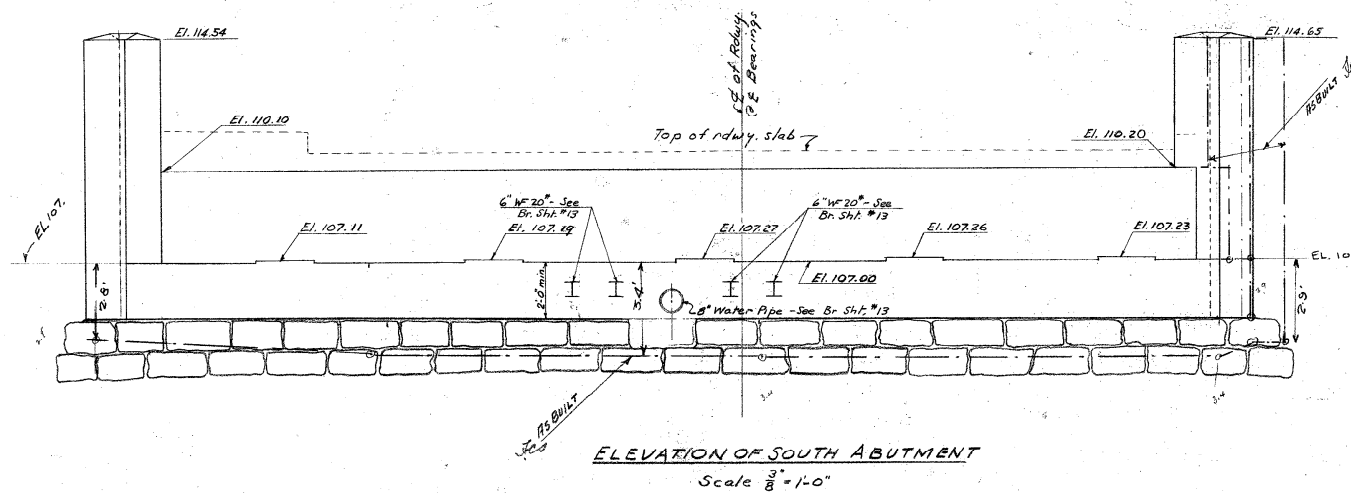
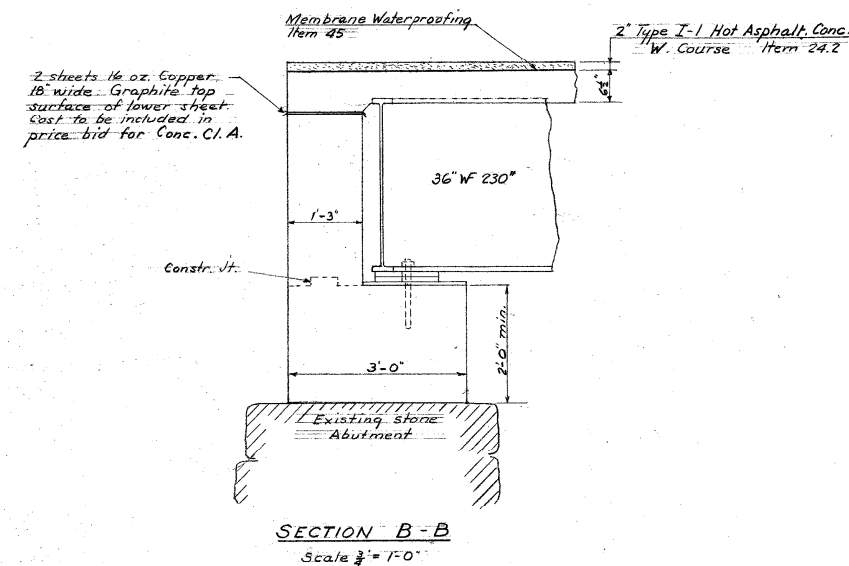
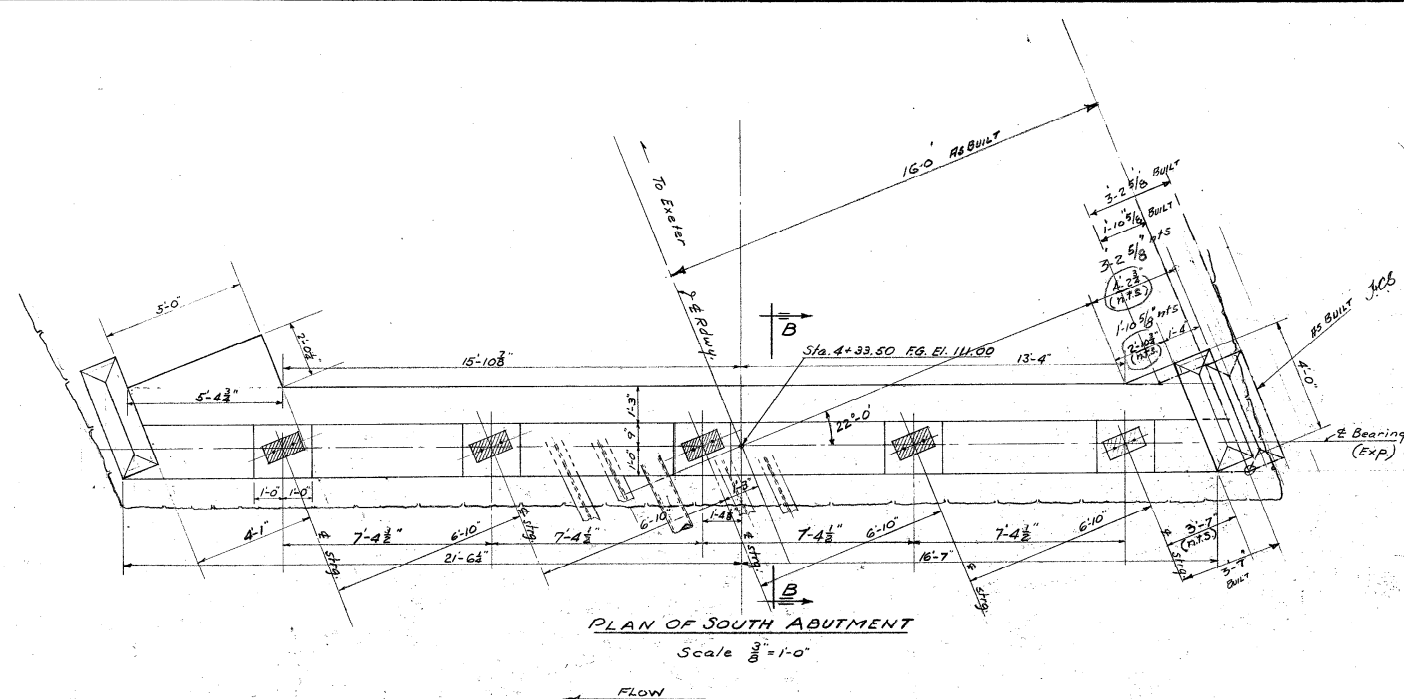
**STATE OF NEW HAMPSHIRE**  
**DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**  
**BRIDGE DIVISION**

TOWN NEWMARKET BRIDGE NO. 127/097  
FEDERAL PROJECT E 272 (S) STATE PROJECT C 2763  
ROUTE NO. NH 108 OVER  
LOCATION

BRIDGE SHEET NO. BA OF 13  
FILE NUMBER 3-3-4-1  
PROJ. NO. 10A SHEET NO. 17



FED. ROAD DIV. NO.	STATE	F.A.P. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F-272(9)	1934	11	17



STATE OF NEW HAMPSHIRE  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
BRIDGE DIVISION

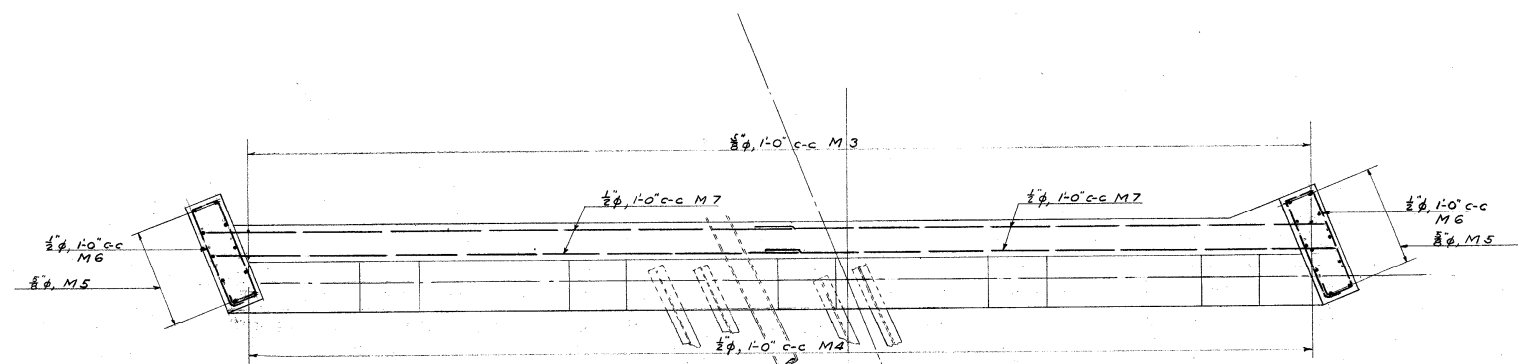
TOWN NEWMARKET BRIDGE NO. 127/097  
FEDERAL PROJECT F-272(9) STATE PROJECT C-2763  
ROUTE NO. N.H. 108 OVER LAMPREY RIVER  
LOCATION .6 MI. SO. FROM NEWMARKET DURHAM T.L.

SOUTH ABUTMENT				BRIDGE SHEET NO.	
DESIGNED	BY <u>J.S.B.</u>	DATE <u>11/23</u>	CHECKED <u>W.H.</u>	DATE <u>4/24</u>	9 OF 13
DRAWN	BY <u>J.S.B.</u>	DATE <u>11/23</u>	CHECKED <u>W.H.</u>	DATE <u>4/24</u>	
TRACED	BY <u>J.S.B.</u>	DATE <u>1/24</u>	CHECKED <u>J.S.B.</u>	DATE <u>4/24</u>	FILE NUMBER
QUANTITIES	BY <u>J.S.B.</u>	DATE <u>1/24</u>	CHECKED <u>J.S.B.</u>	DATE <u>4/24</u>	
REVISIONS				PROJ. NO. <u>F-272(9)</u>	SHEET NO. <u>11</u>
				TOTAL SHEETS <u>17</u>	

3350

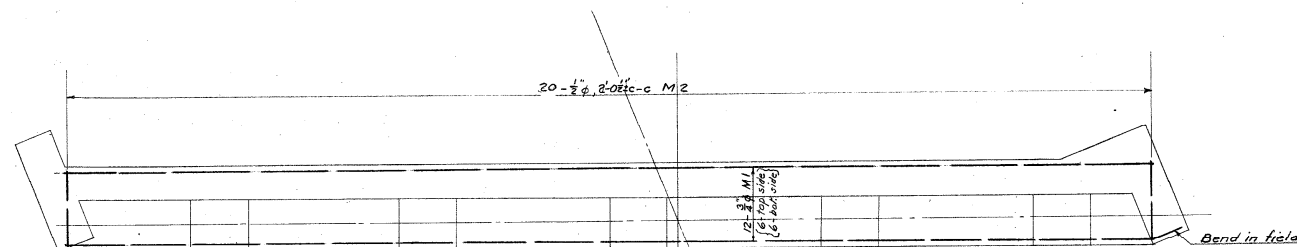


FED. ROAD DIV. NO.	STATE	F.A.P. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F-272(5)	1954	12	17



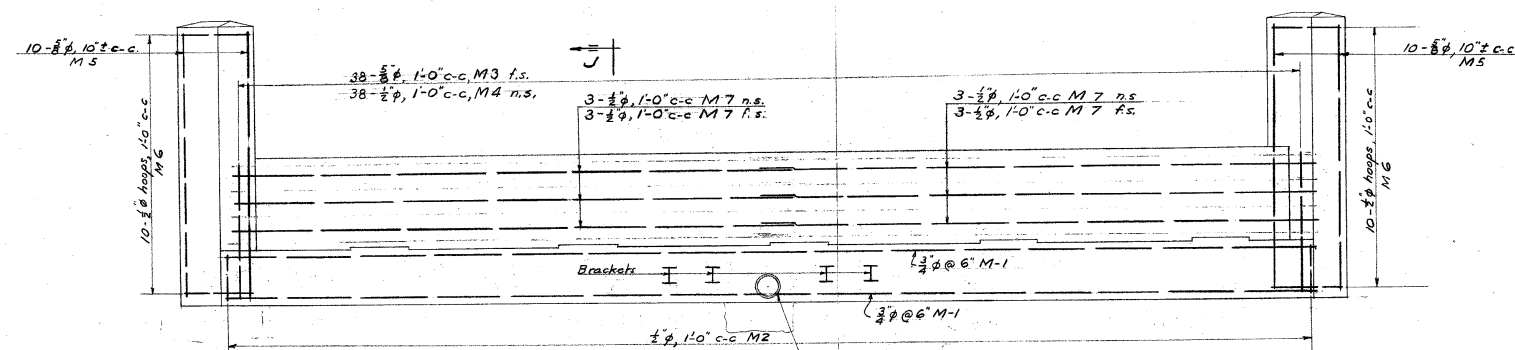
PLAN OF REINFORCING STEEL IN BACKWALL & ENDPOSTS

Scale  $\frac{3}{8}'' = 1'-0''$



PLAN OF REINFORCING STEEL IN BRIDGE SEAT

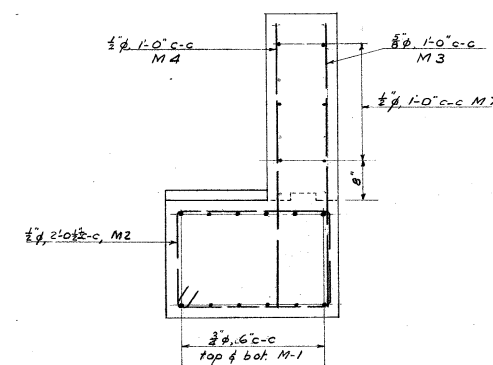
Scale  $\frac{3}{8}'' = 1'-0''$



ELEVATION

Scale  $\frac{3}{8}'' = 1'-0''$

Note: Space M1 & M2 bars to clear anchor bolts.  
Space M2 bars to clear 6" W 20" brackets.



SECTION J-J

Scale  $\frac{3}{4}'' = 1'-0''$

STATE OF NEW HAMPSHIRE  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
BRIDGE DIVISION

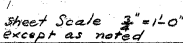
TOWN NEWMARKET BRIDGE NO. 127/297  
FEDERAL PROJECT F-272 (5) STATE PROJECT C-2763  
ROUTE NO. N.H. 108 OVER LAMPREY RIVER  
LOCATION Q.6 MISO. NEWMARKET-DURHAM T.L.

REINFORCING STEEL - SOUTH ABUT.

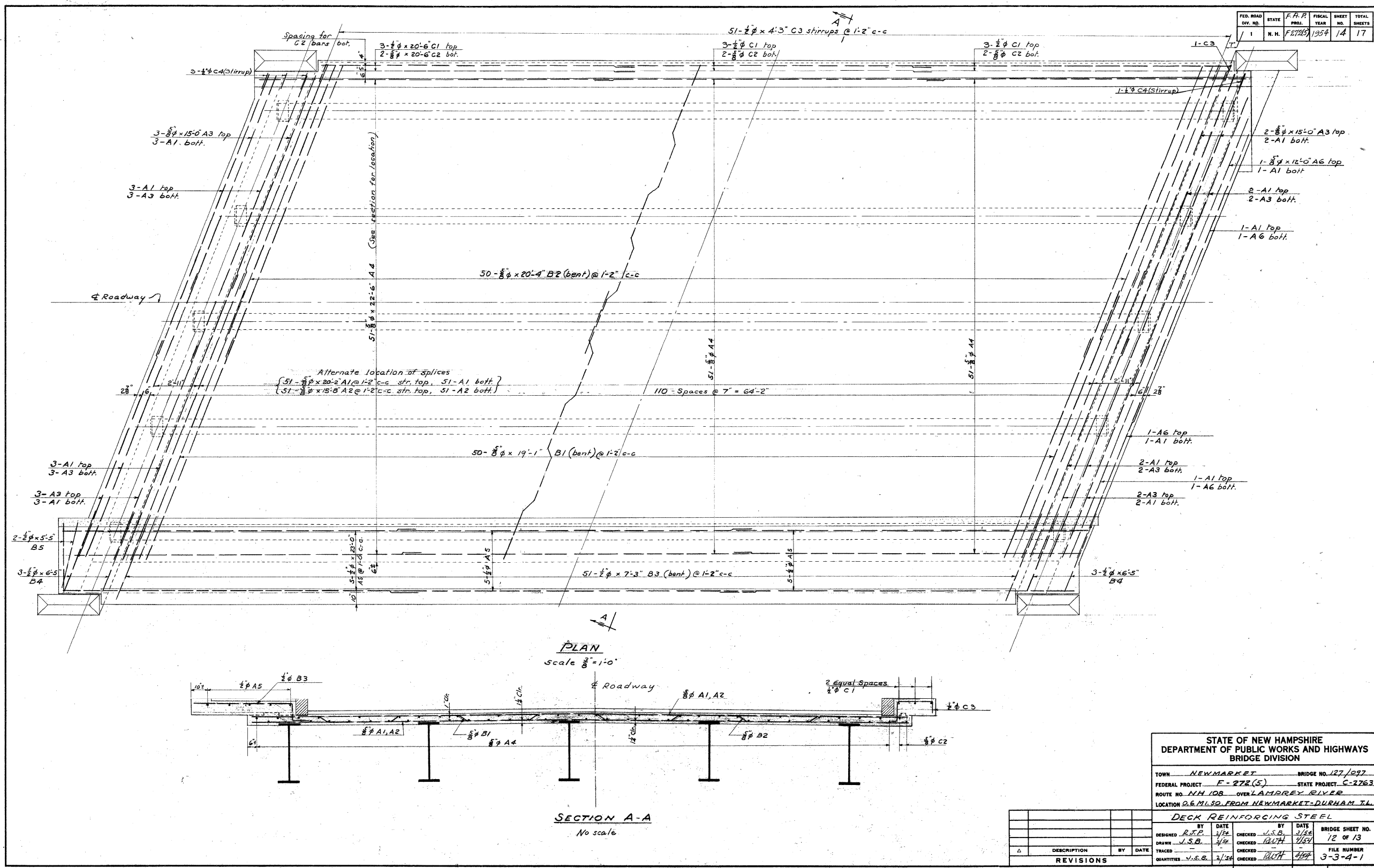
BY	DATE	BY	DATE	BRIDGE SHEET NO.
DESIGNED <u>J.S.B.</u>	<u>12/53</u>	CHECKED <u>R.W.H.</u>	<u>4/54</u>	<u>10 OF 13</u>
DRAWN <u>J.S.B.</u>	<u>12/53</u>	CHECKED <u>R.W.H.</u>	<u>4/54</u>	FILE NUMBER
TRACED <u>J.S.B.</u>	<u>3/54</u>	CHECKED <u>R.W.H.</u>	<u>4/54</u>	<u>3-3-4-1</u>

DESCRIPTION	BY	DATE	QUANTITIES	PROJ. NO.	SHEET NO.	TOTAL SHEETS
				<u>F-272(5)</u>	<u>12</u>	<u>17</u>

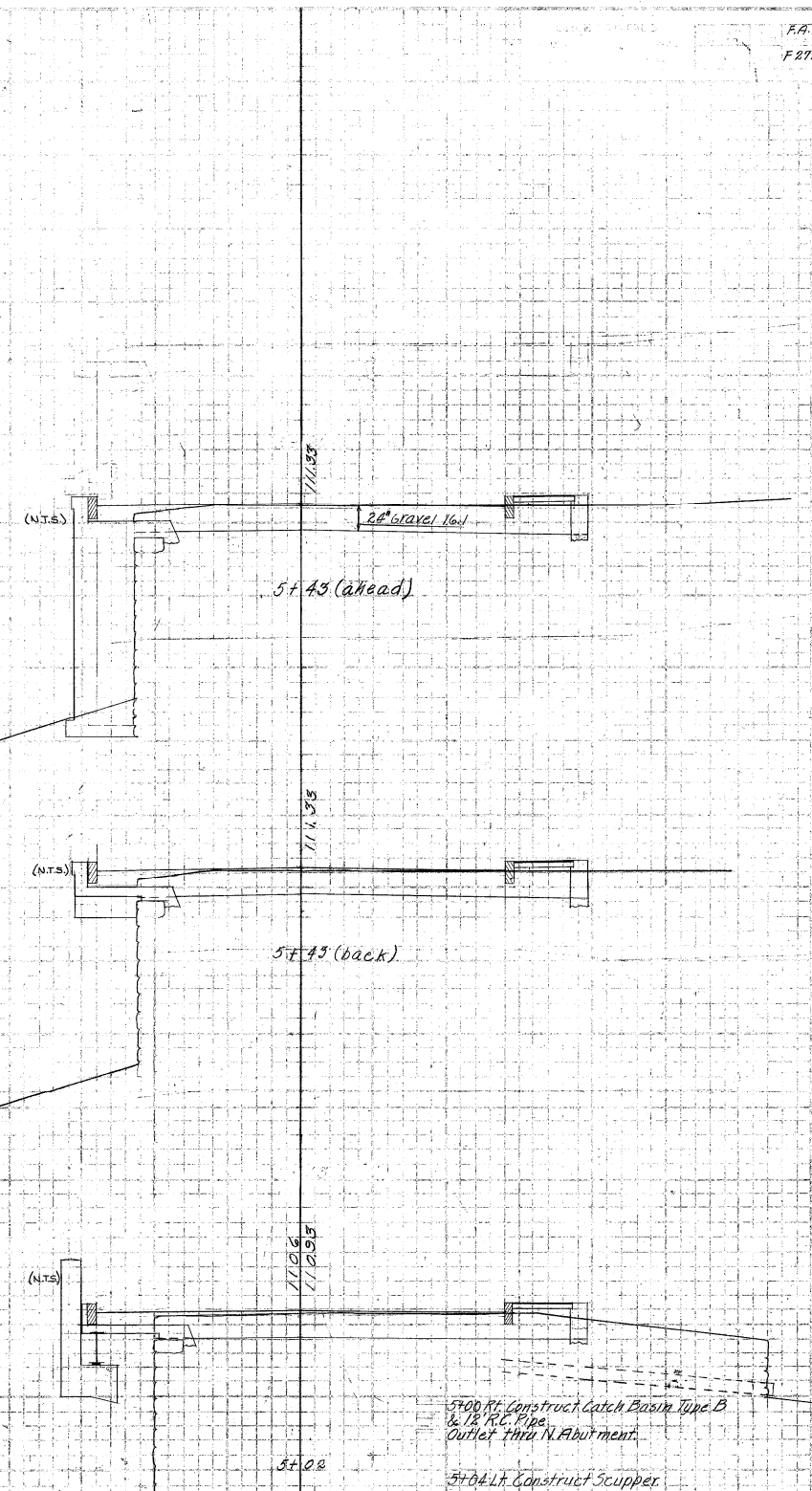
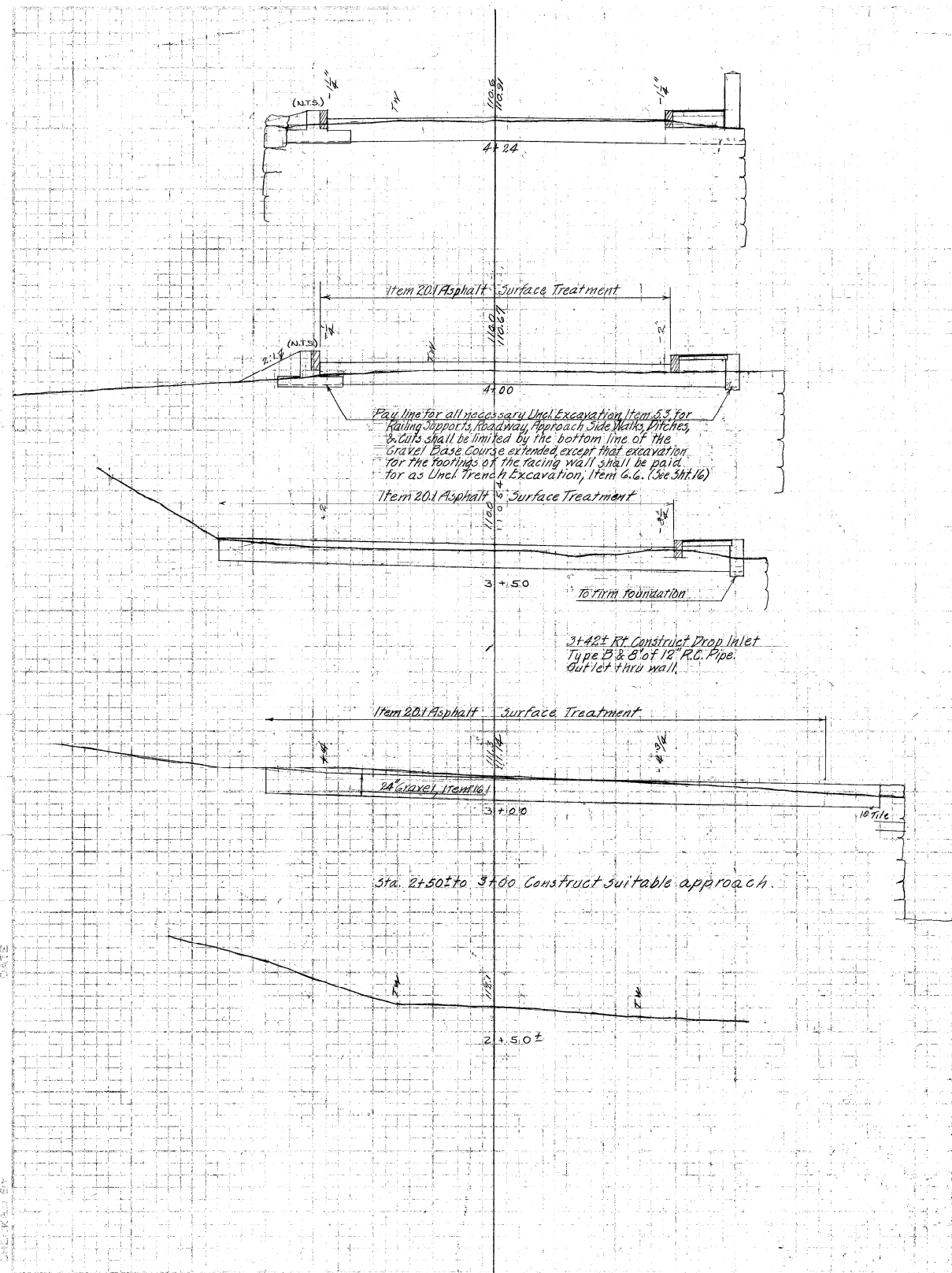
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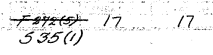
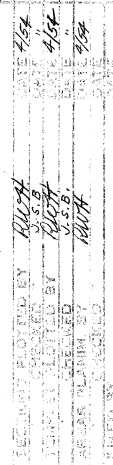
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3-3-4-1